

Product Specification (L-3CFW)

Canare Electric Co., Ltd

1. **Scope** This product specification covers the performance of the 75Ω Coaxial cable.

2. **General Specifications**

(1) **Product Name** 75Ω Coaxial Cable

(2) **Model Name** L-3CFW

(3) **Construction and Appearance** As shown in Fig.1 and Table 1

Fig. 1

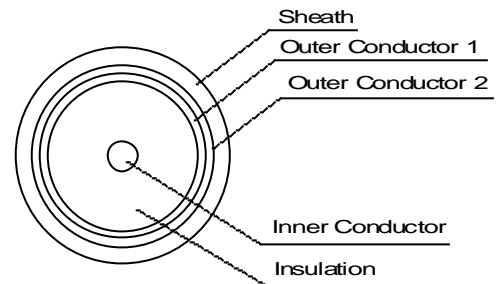


Table 1

Item	Standard Value	Note
No. of Conductor	1	
Inner Conductor	Construction (qty/mm)	1/0.65A
	Nom. Cross Section Area (mm ²)	0.33
	Outer Diameter (mm)	0.65
Insulation	Thickness (mm)	1.23
	Outer Diameter (mm)	3.10
Outer Conductor 1	Construction (carr/end/mm)	24/ 5/0.12A
	Pitch (mm)	<= 20
Outer Conductor 2	Construction (carr/end/mm)	24/ 6/0.12A
	Pitch (mm)	<= 35
	Outer Diameter (mm)	4.2
Sheath	Thickness (mm)	0.8
	Color	Blk. Brn. Red. Orn. Yel. Grn. Blu. Ppl. Gry. Wht. Pnk. Custom colors available
	Marking	UHDTV-SDI 75Ω Coaxial Cable L-3CFW CANARE <Year Code> MADE IN JAPAN
Outer Diameter (mm)	5.8	

(4) **Weight** Approx. 5.1kg / 100m

(5) **Package** 100m, 200m: Spool
500m: Wooden spool
Over 510m: Wooden reel

3. Rating, Standard

- (1) Rated Voltage AC 60Vrms
(2) Temperature Range -30°C to +60°C

4. Electrical Characteristics

Item		Standard Value	Test Method
D.C. Resistance	Inner Conductor	$\leq 55.1\Omega/\text{km}$ (20°C)	JIS C 3005
	Outer Conductor	$\leq 7.0\Omega/\text{km}$ (20°C)	JIS C 3005
Insulation Resistance		$\geq 1000\text{M}\Omega\text{-km}$	JIS C 3005
Voltage Proof		AC1000V 1minute Not Breakdown	JIS C 3005
Characteristic Impedance		$75\pm 3\Omega$ (10MHz)	JIS C 3502
Nominal Capacitance		55nF/km (1kHz)	JIS C 3005
Nominal Attenuation		10MHz: 3.4dB/100m 30MHz: 5.9dB/100m 72MHz: 9.4dB/100m 88MHz: 10.4dB/100m 135MHz: 13.0dB/100m 180MHz: 15.2dB/100m 270MHz: 18.9dB/100m 750MHz: 33.1dB/100m 1.3GHz: 45.4dB/100m 1.5GHz: 49.4dB/100m 2.0GHz: 58.5dB/100m 2.5GHz: 66.9dB/100m 3.0GHz: 74.8dB/100m	JIS C 3502

5. Mechanical Characteristics

Item		Standard Value	Test Method
Tensile properties of Sheath	Tensile strength	≥ 14.0 MPa	JIS C 3005
	Elongation	≥ 230 %	JIS C 3005
Allowable tension		≤ 23 N	-
Allowable bending radius		On / after installation finished: More than 6 times of the cable O.D. Process of wiring: More than 15 times of the cable O.D.	-

6. Environment Characteristics

Item	Standard Value	Test Method
Flame Retardance	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test conditions: Temperature: $50\pm 1^\circ\text{C}$ Duration: 24 ± 1 hours (humidity not designated) Load: $500\pm 25\text{g}$

Note: Testing must be performed under standard conditions set down in "JIS C 60068-1 General Environmental Testing Rules (Electric/Electronics)."

Standard Conditions: Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.